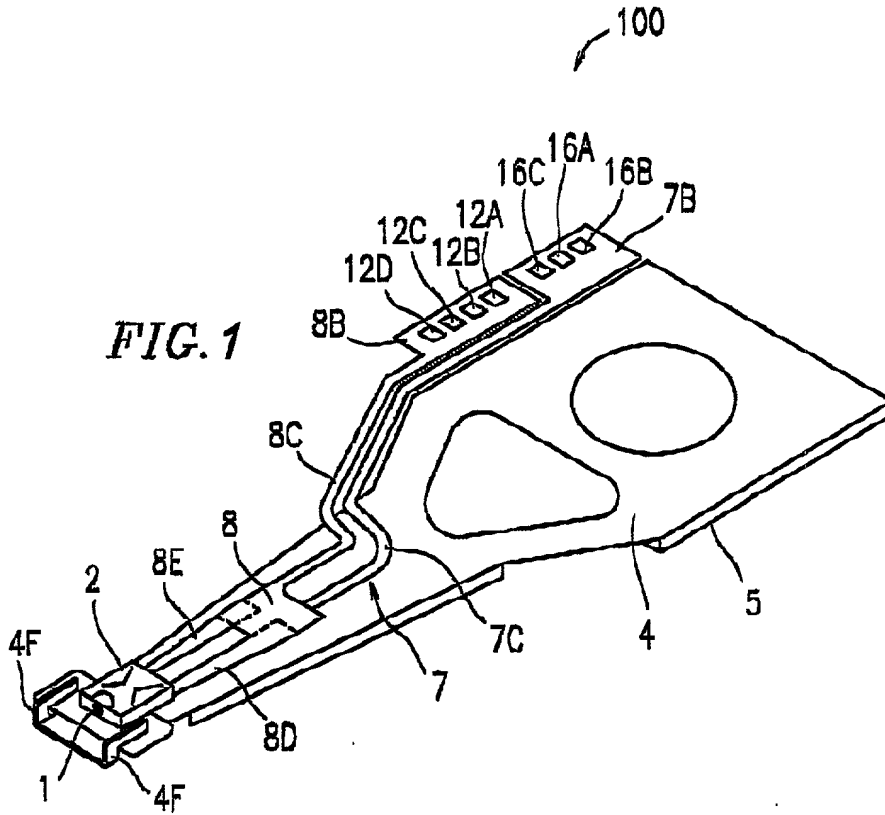


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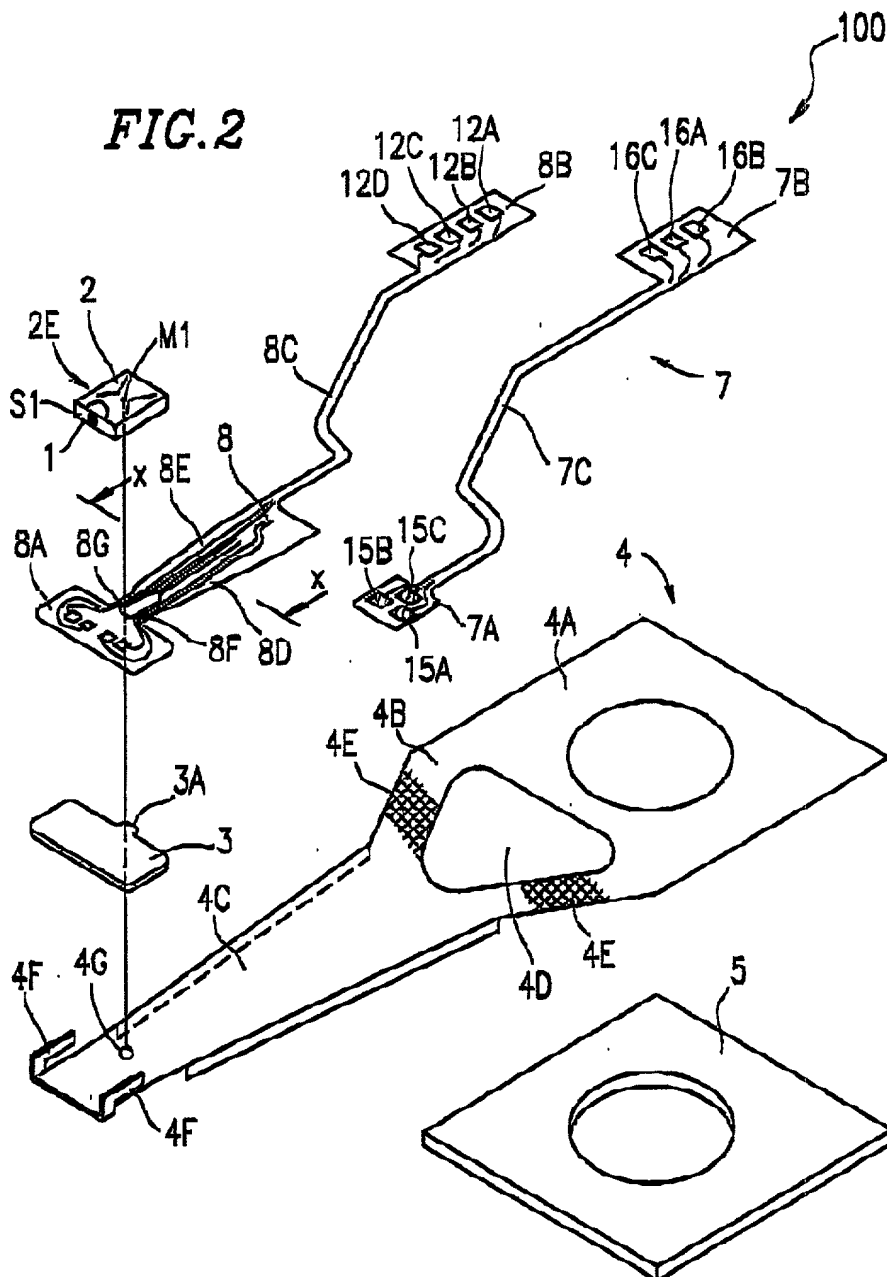
FIG. 1



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FIG. 2



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FIG. 3

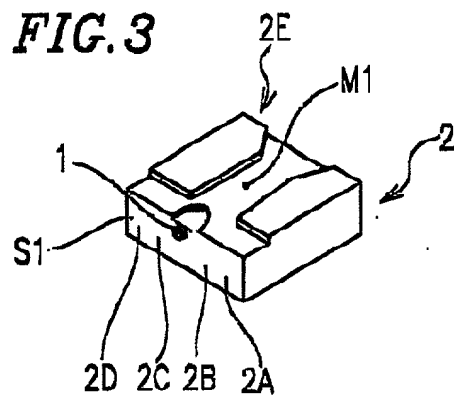
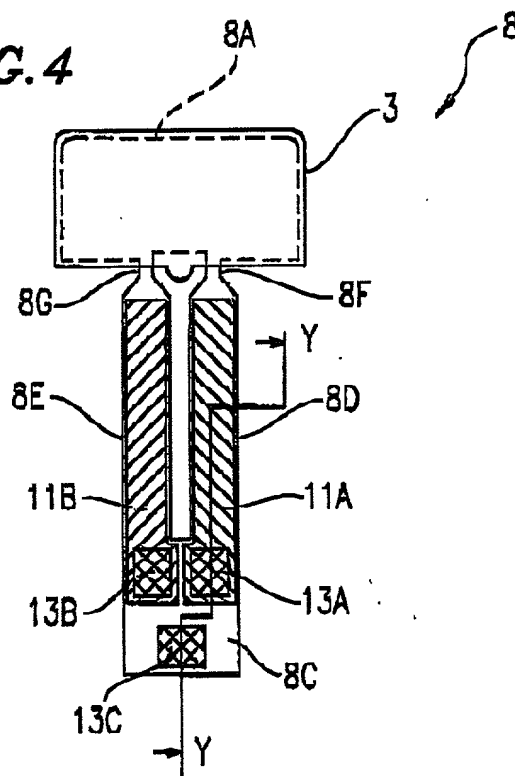
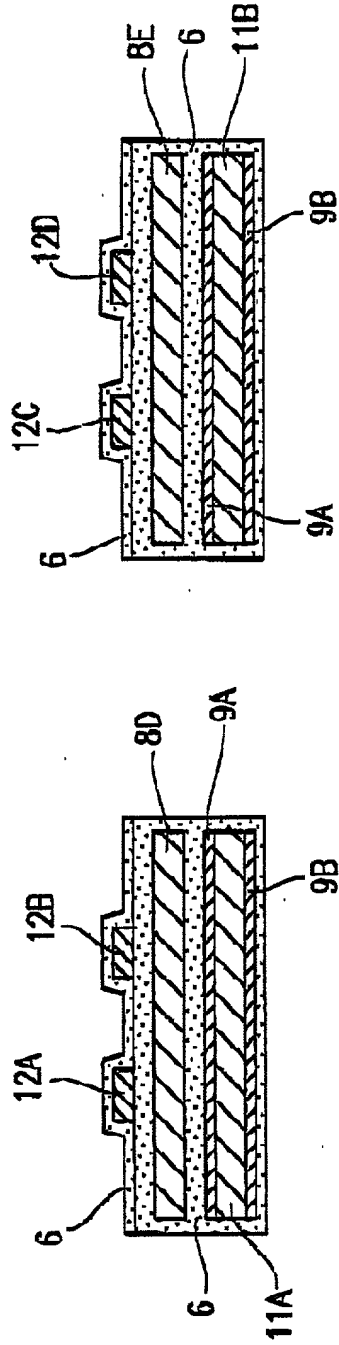


FIG. 4

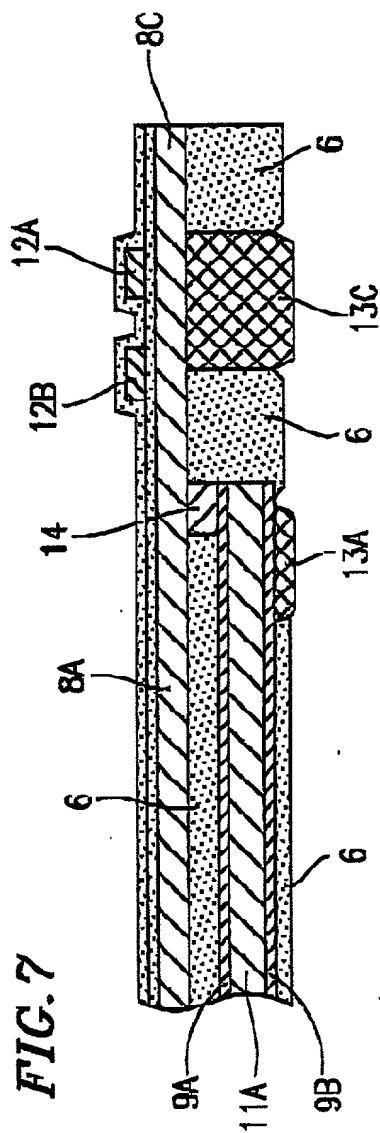


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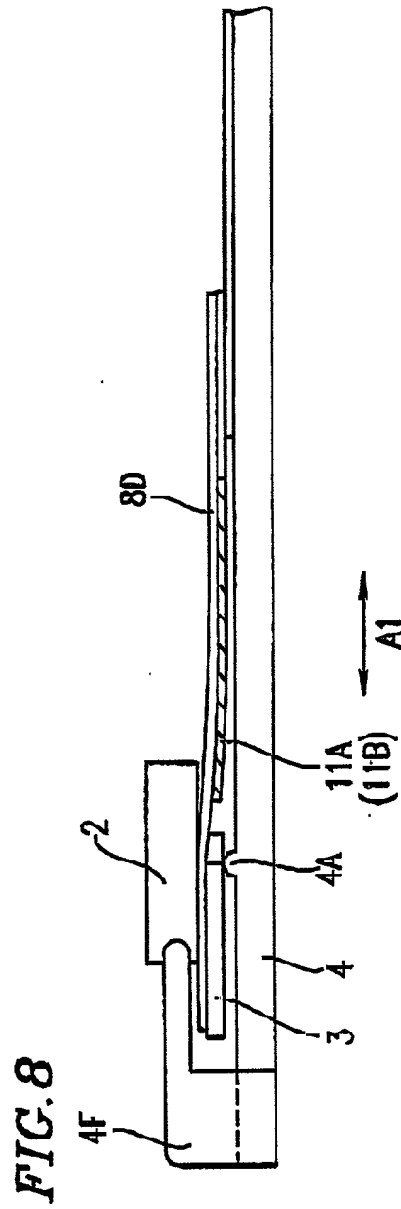
FIG. 6



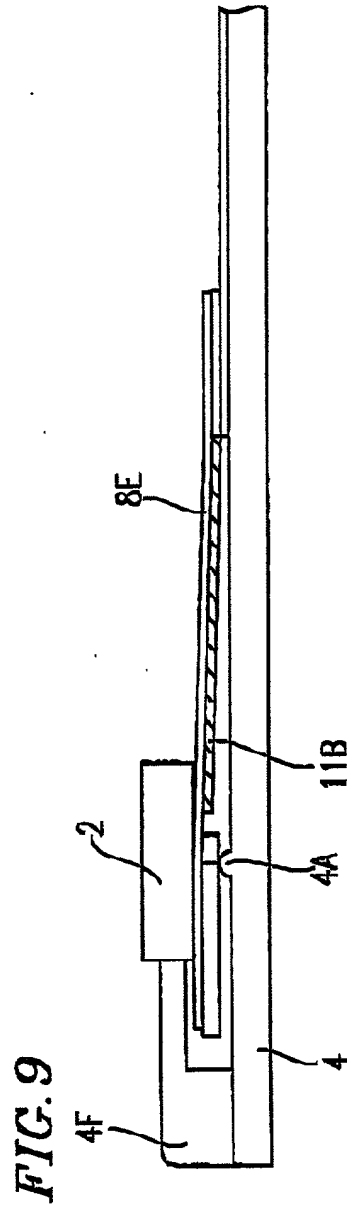
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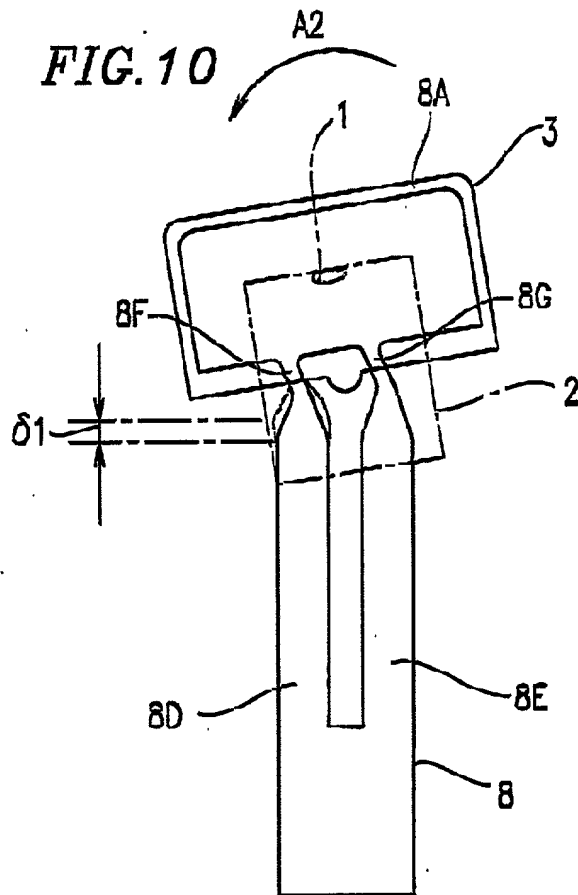
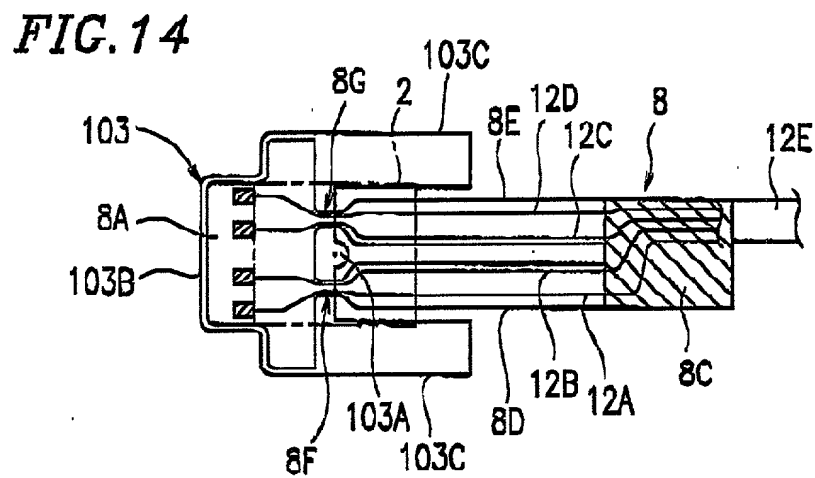
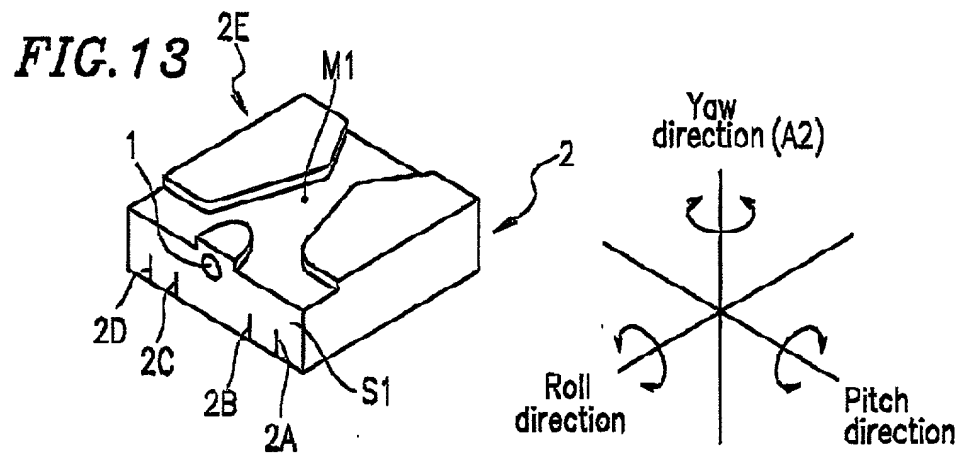


FIG. 10

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FIG. 15

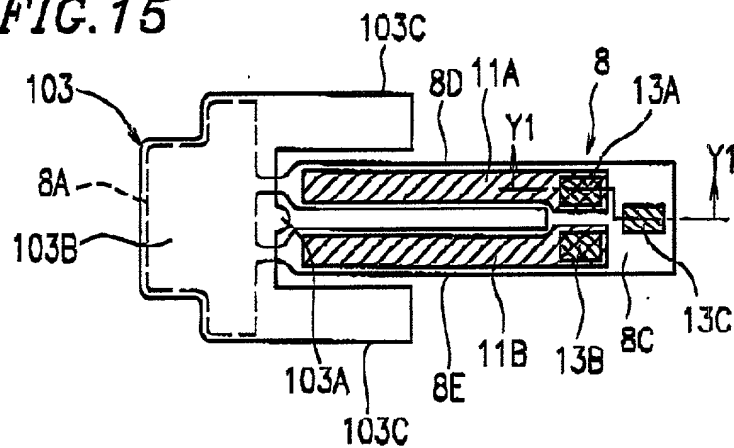
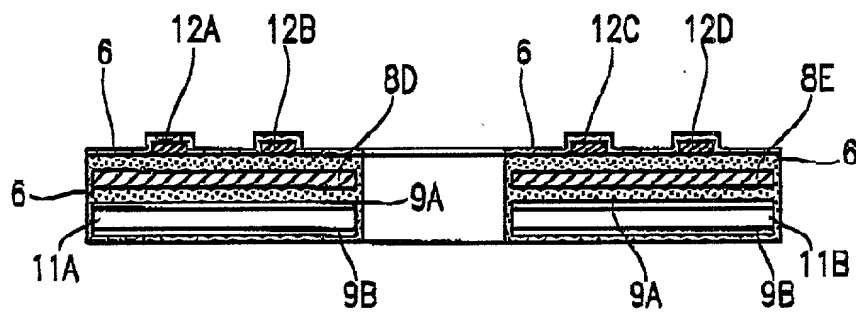


FIG. 16



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FIG. 17

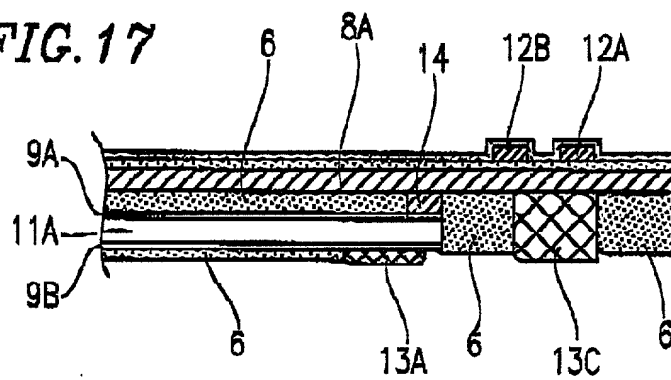


FIG. 18

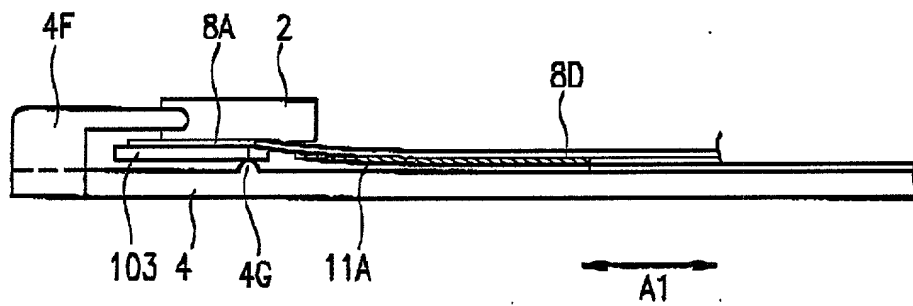
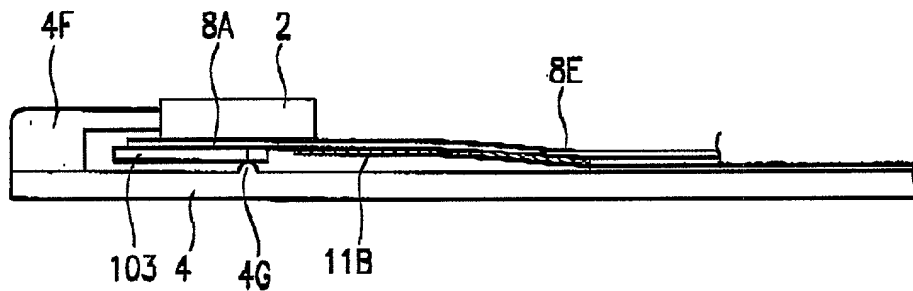


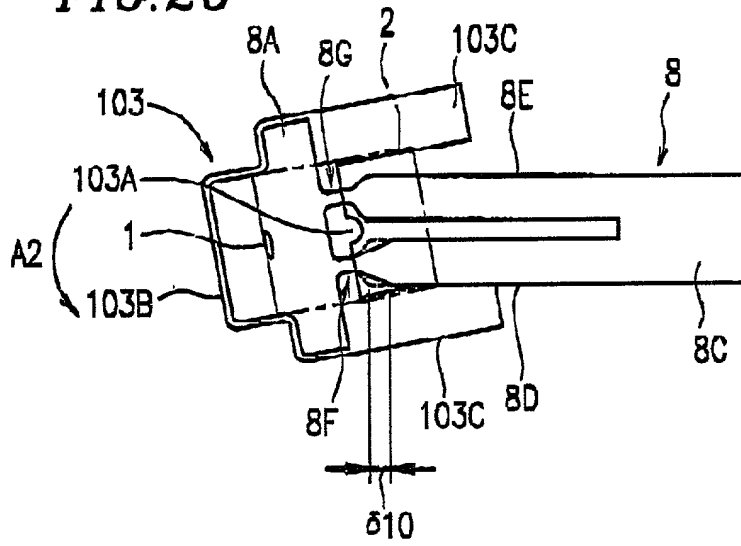
FIG. 19



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FIG. 20



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FIG.23A

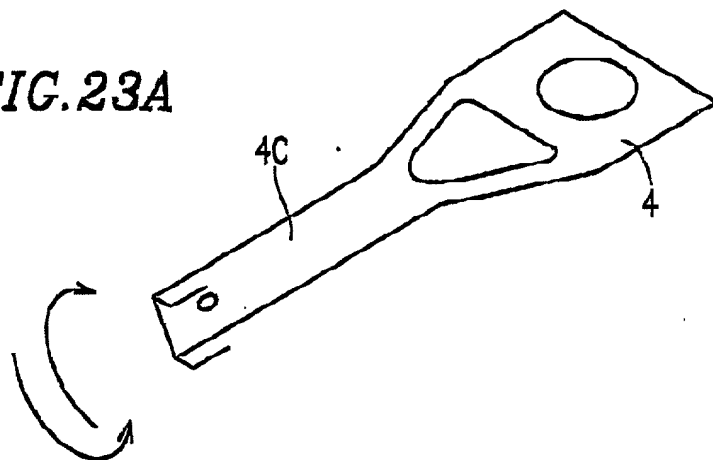


FIG.23B

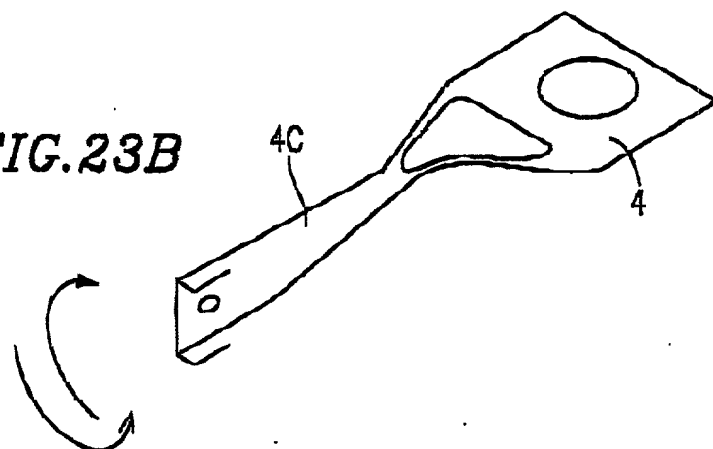
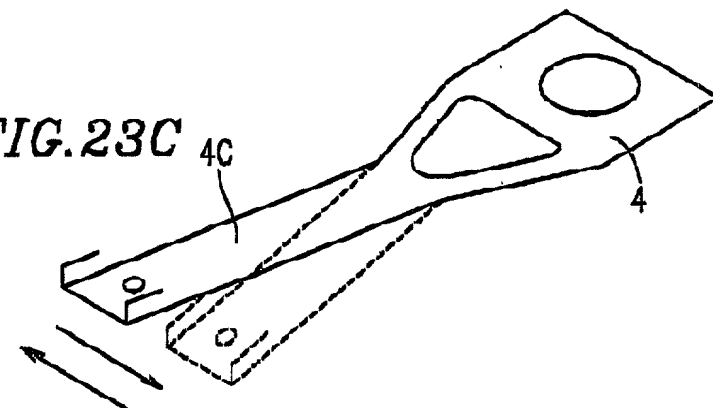
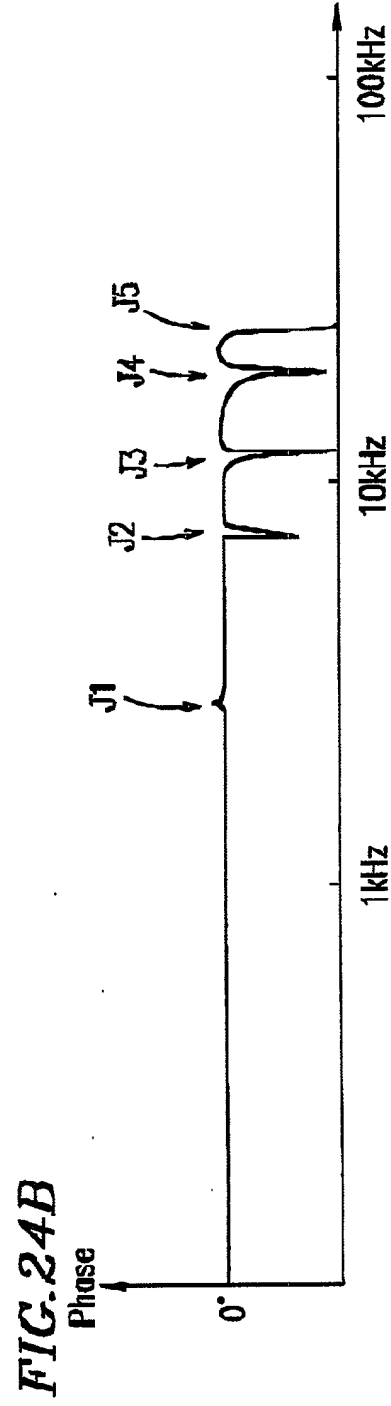
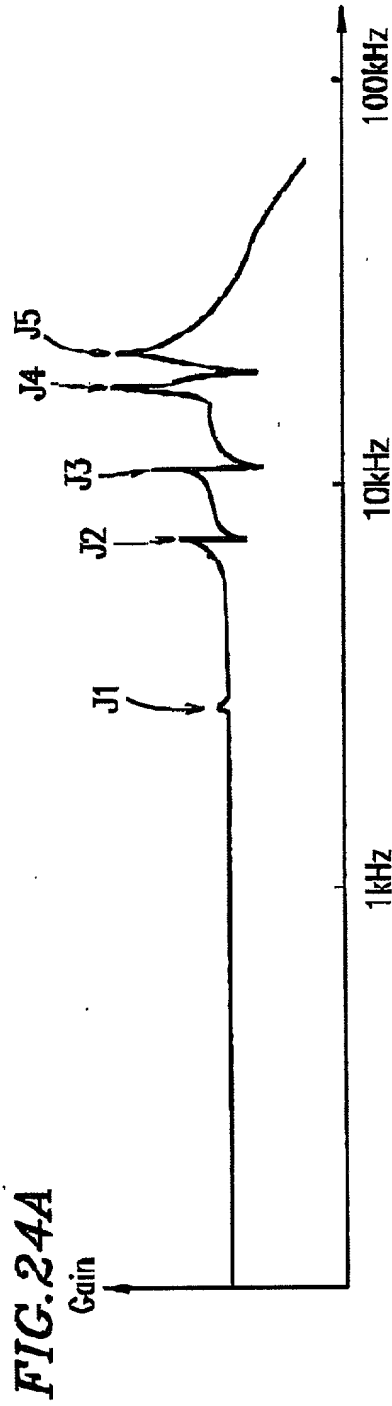


FIG.23C



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FIG. 25A

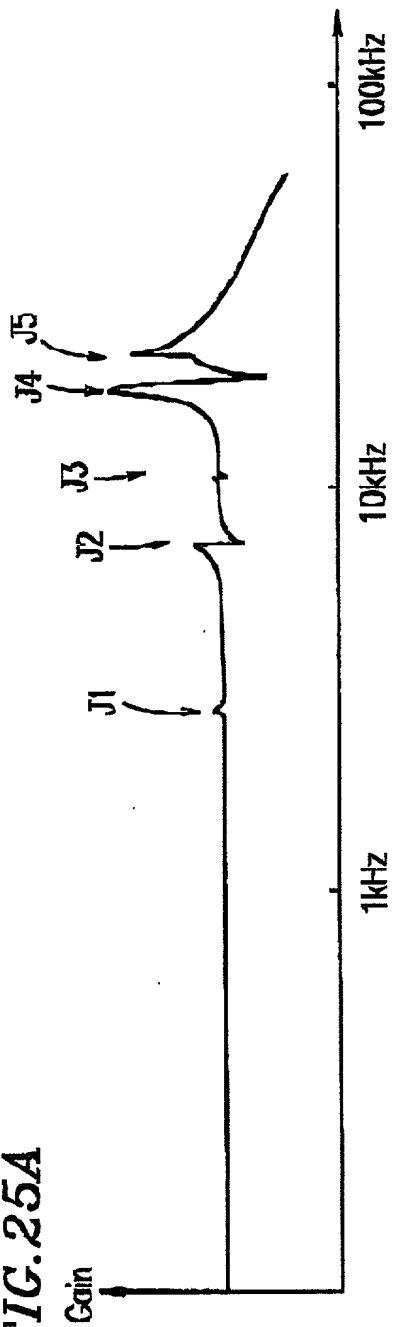
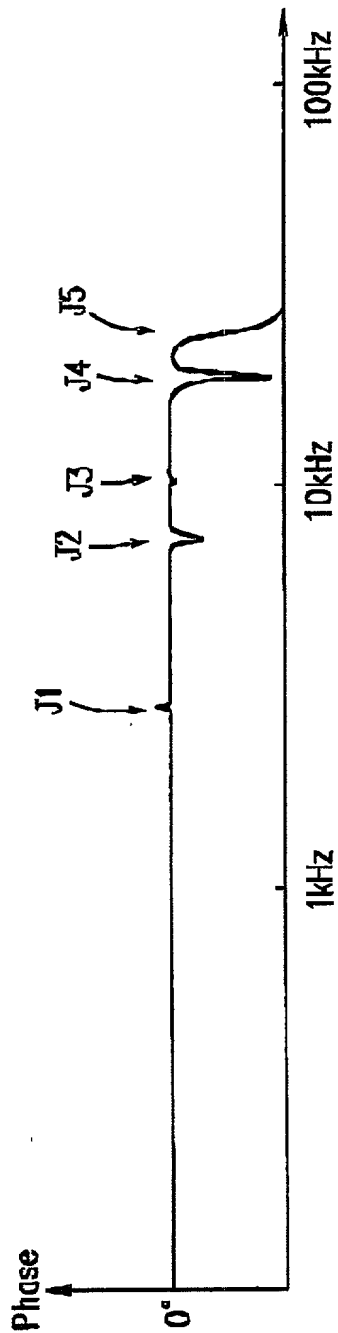


FIG. 25B



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FIG.26A

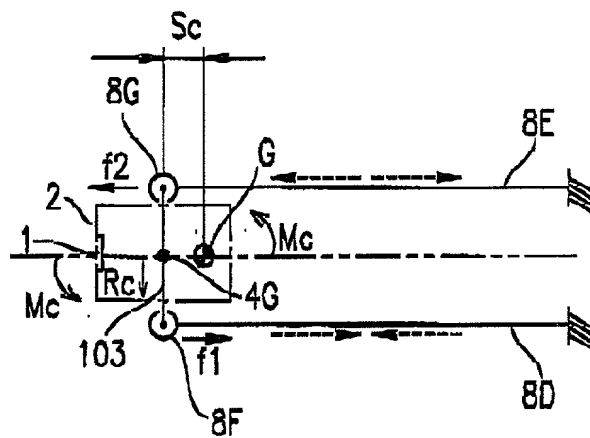


FIG.26B

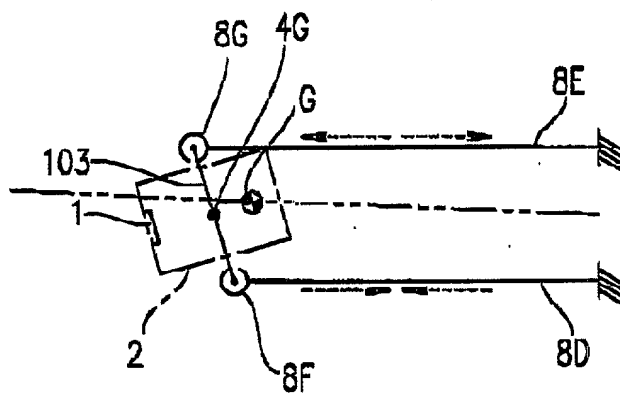


FIG. 26A

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FIG. 27A

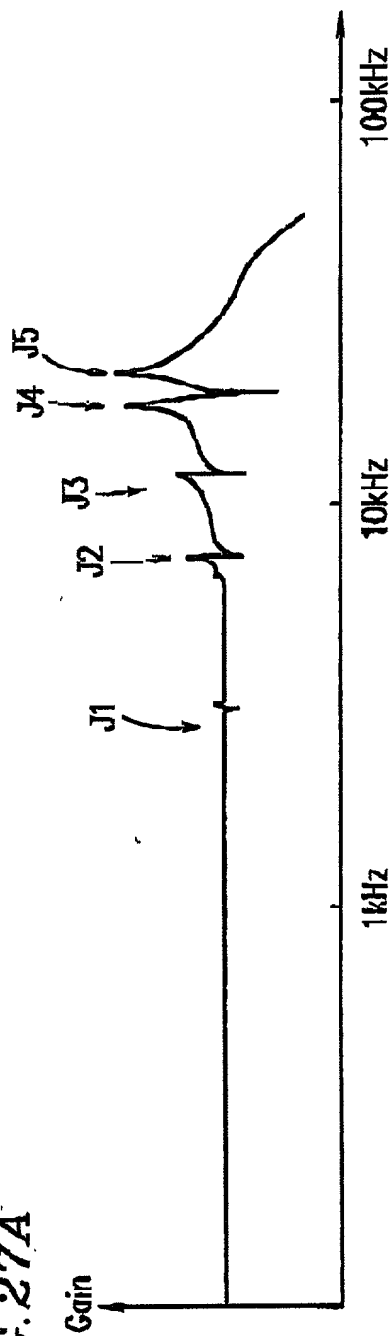
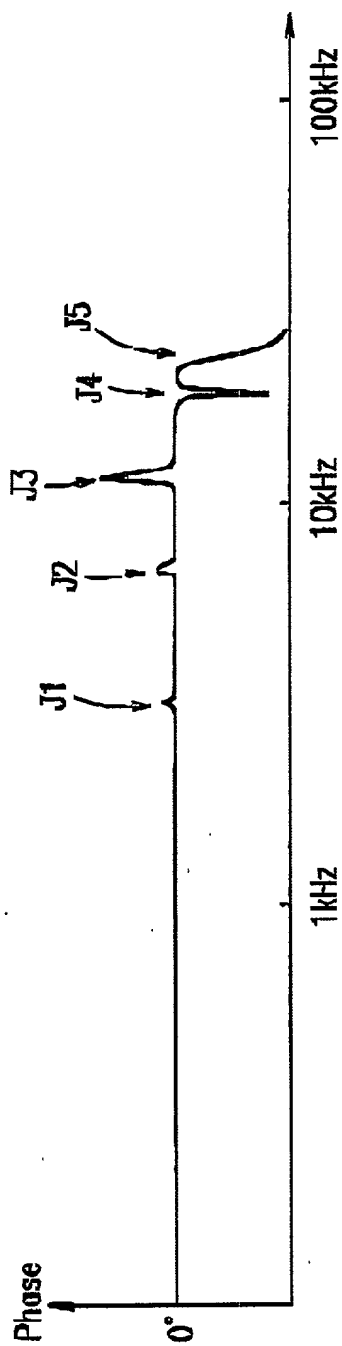
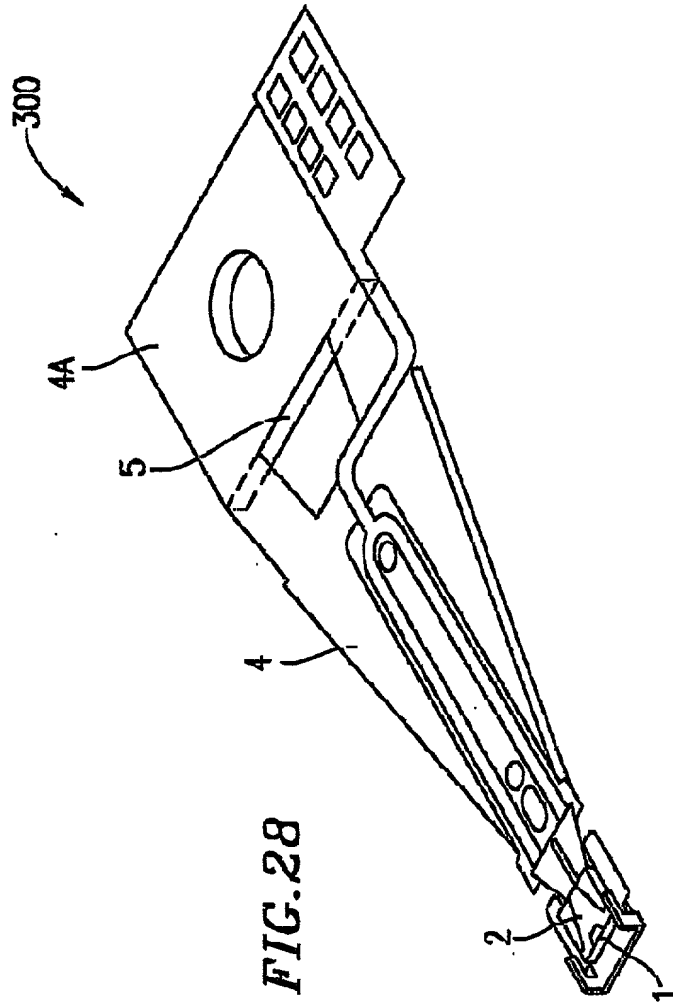


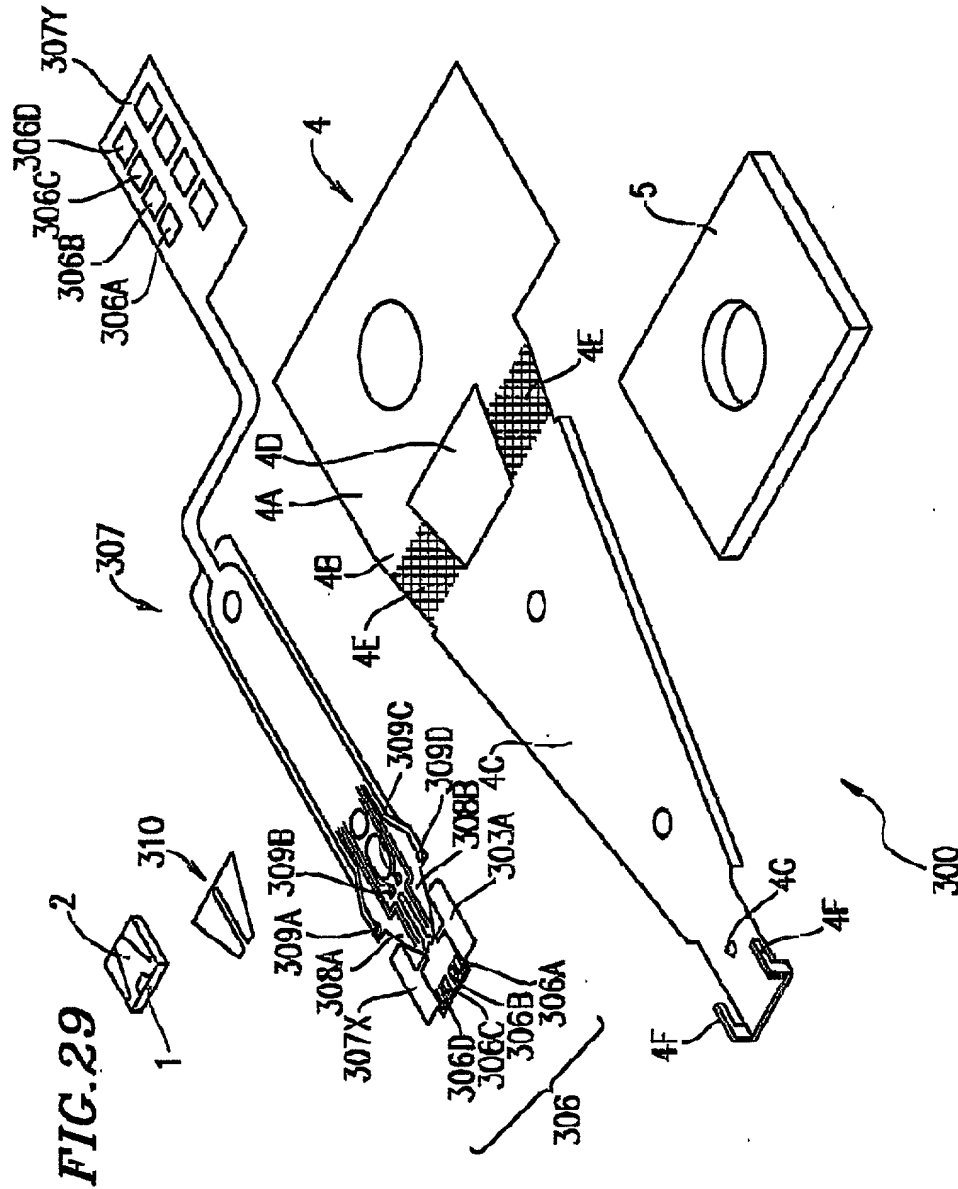
FIG. 27B



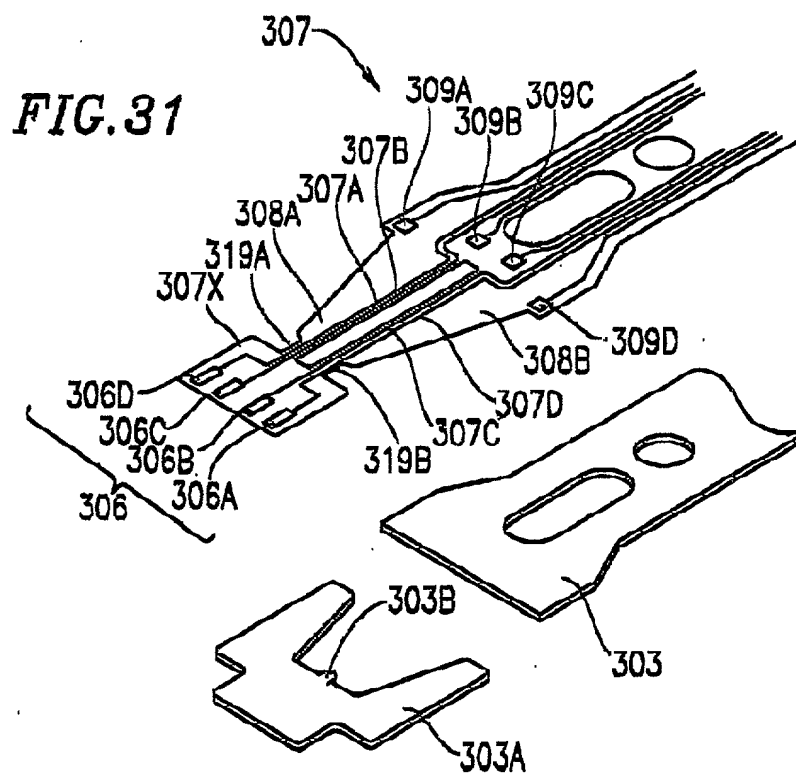
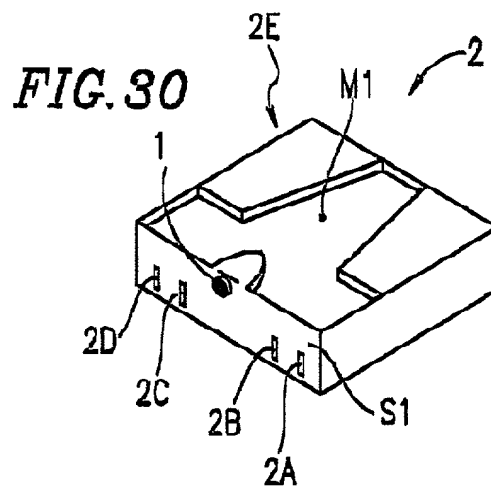
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FIG. 34

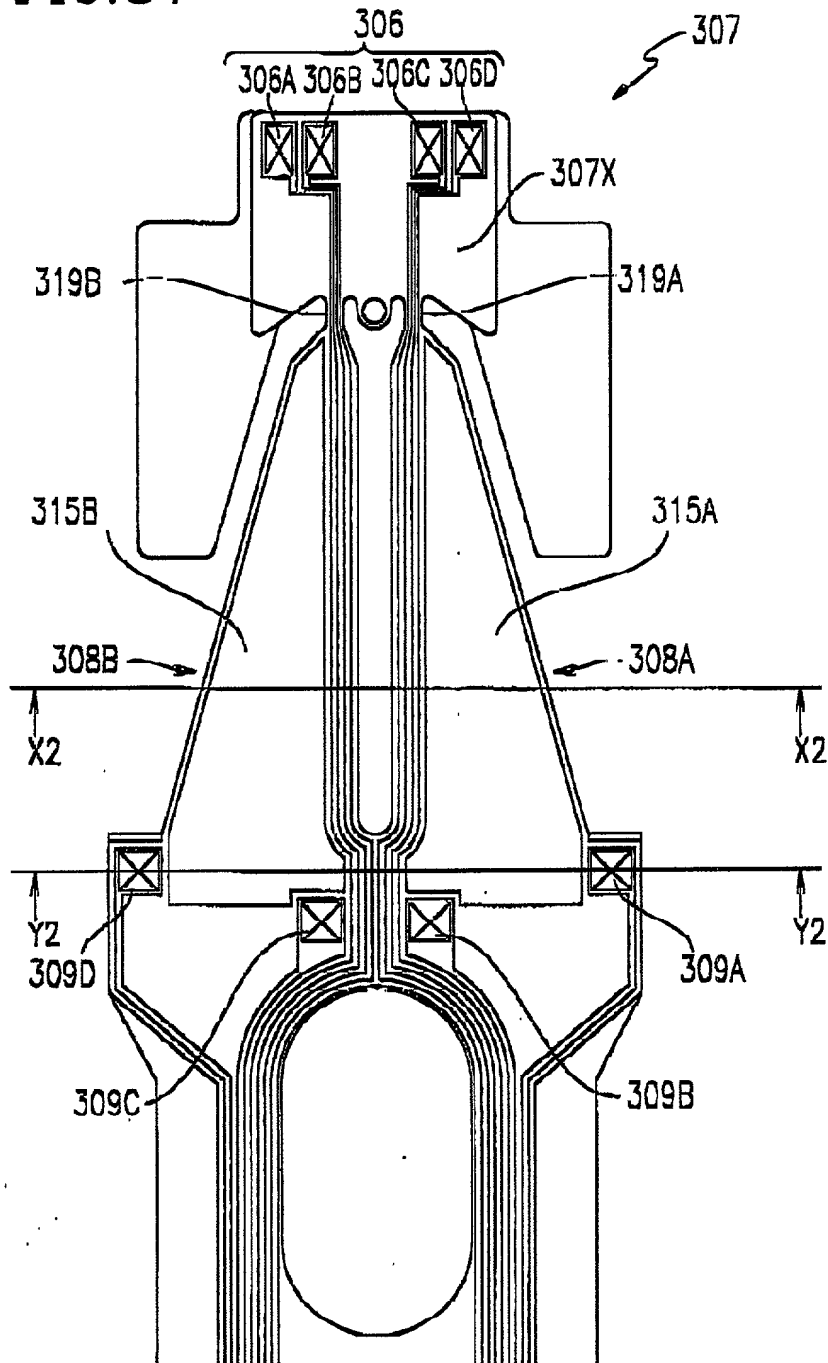
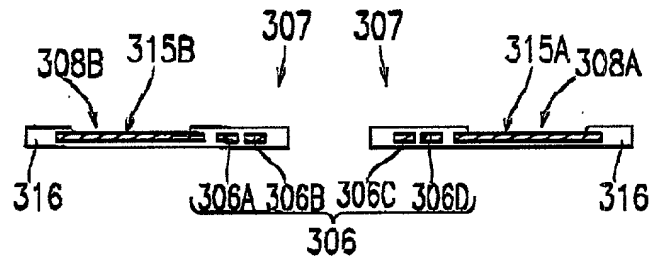


FIG. 34

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FIG. 35



X2-X2 Cross section

FIG. 35

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FIG. 36

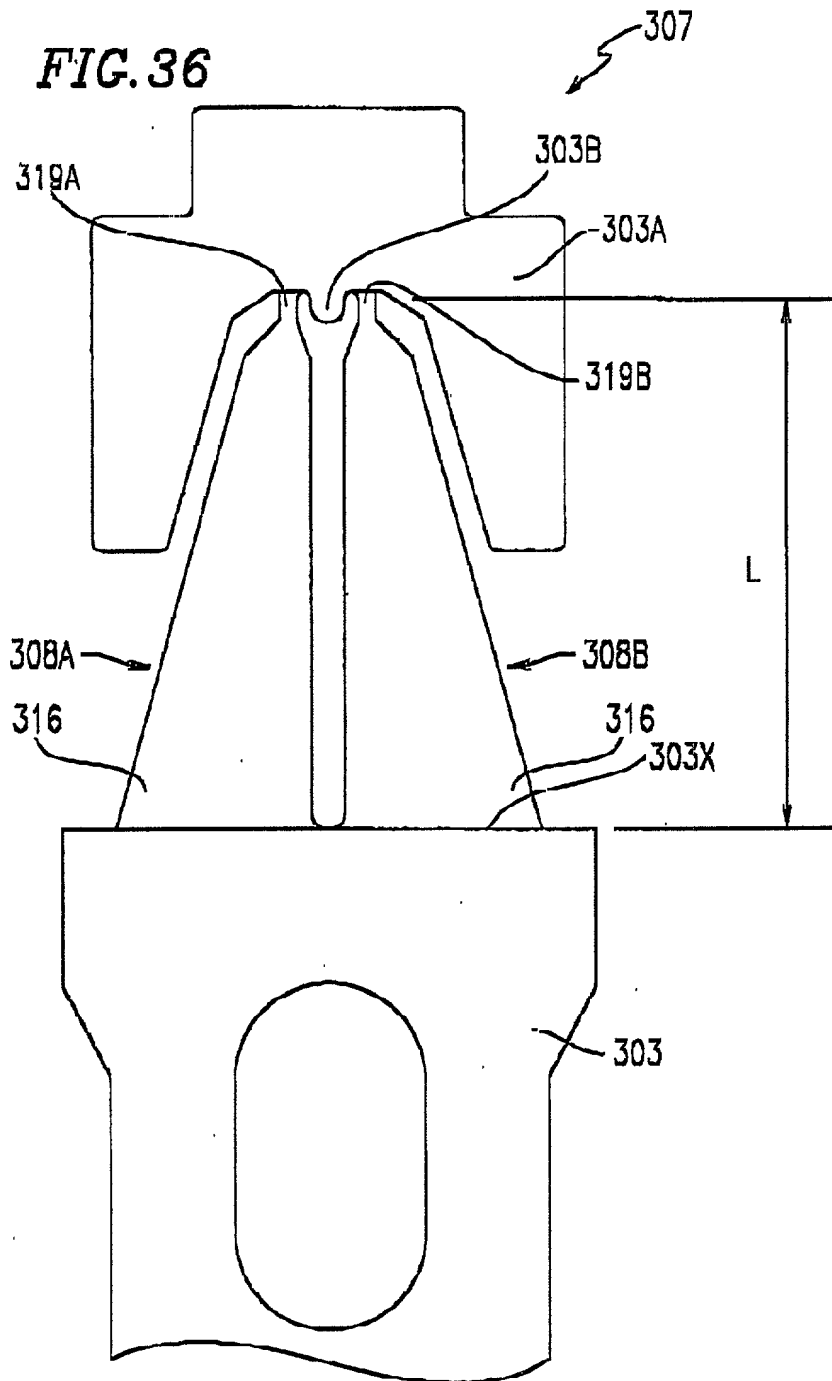
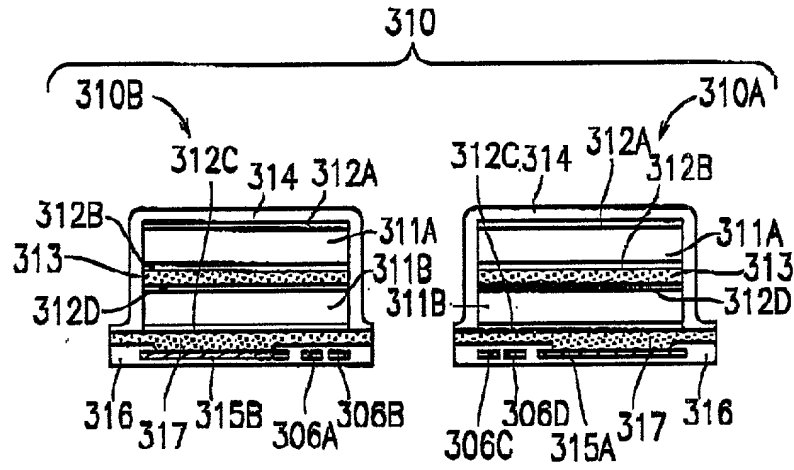


FIG. 36

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FIG. 37



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FIG. 38A

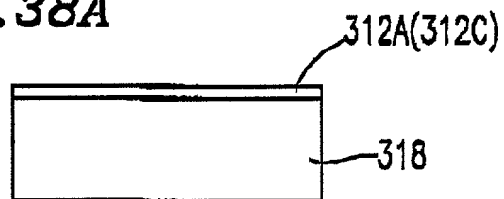


FIG. 38B

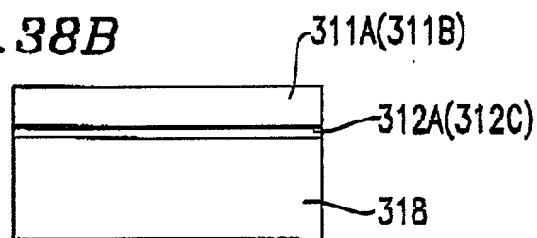


FIG. 38C

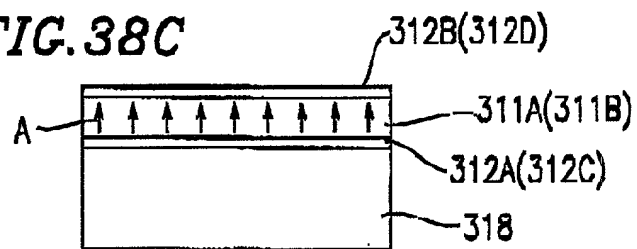


FIG. 38A

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FIG. 39A

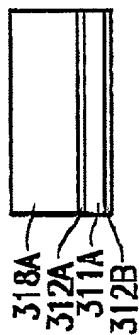


FIG. 39B

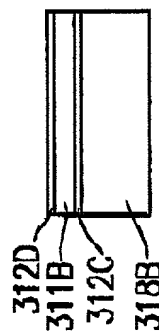


FIG. 39C

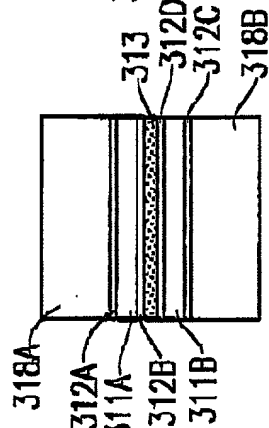


FIG. 39D

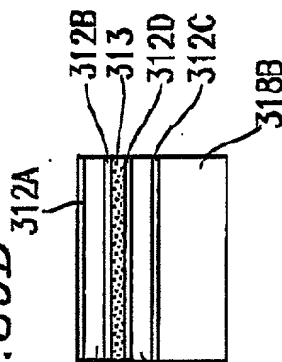


FIG. 39E

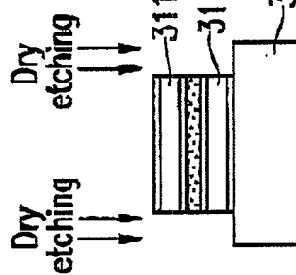


FIG. 39F

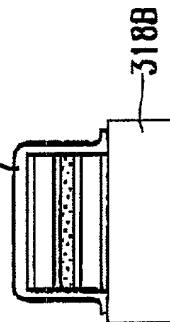


FIG. 39G



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FIG. 40

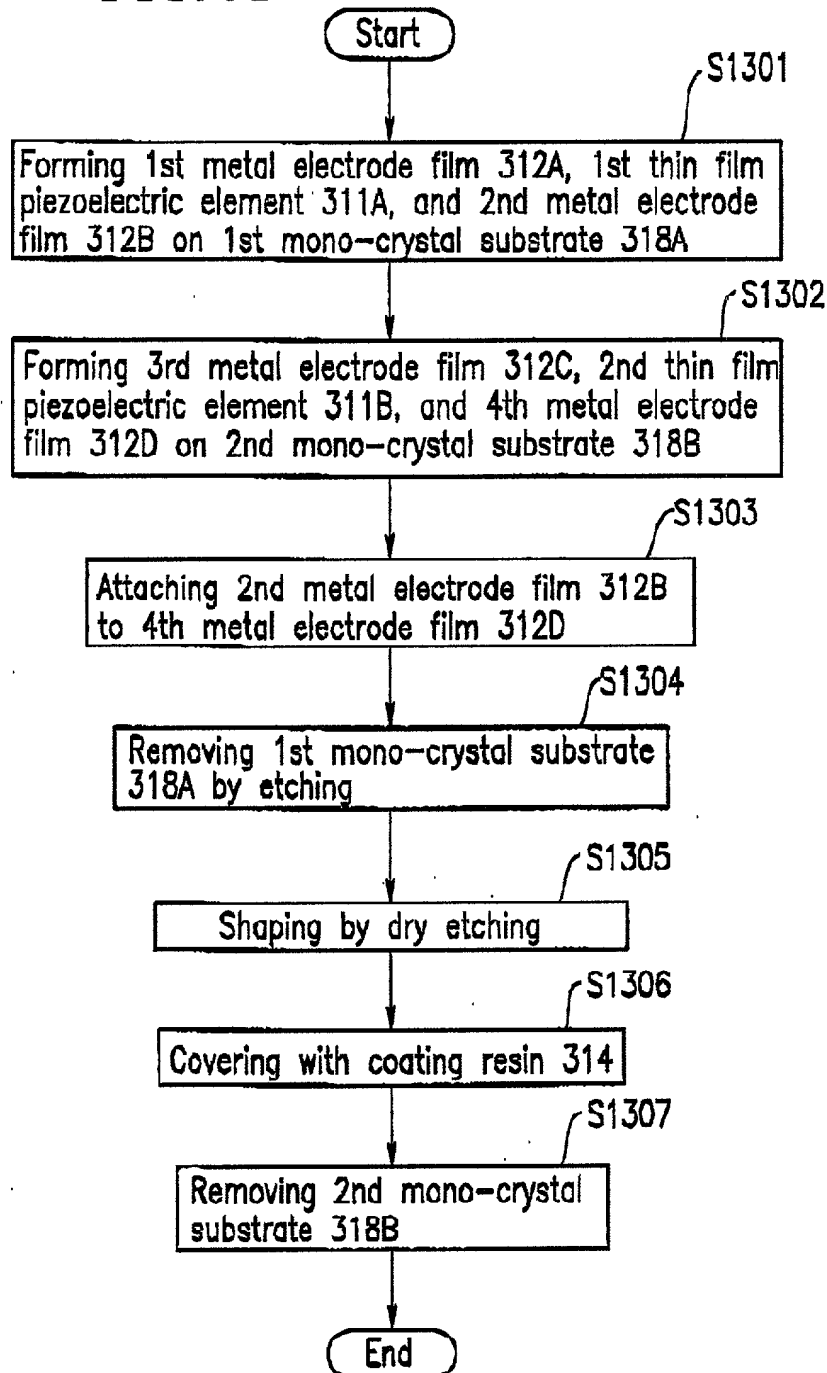


FIG. 40

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FIG. 41

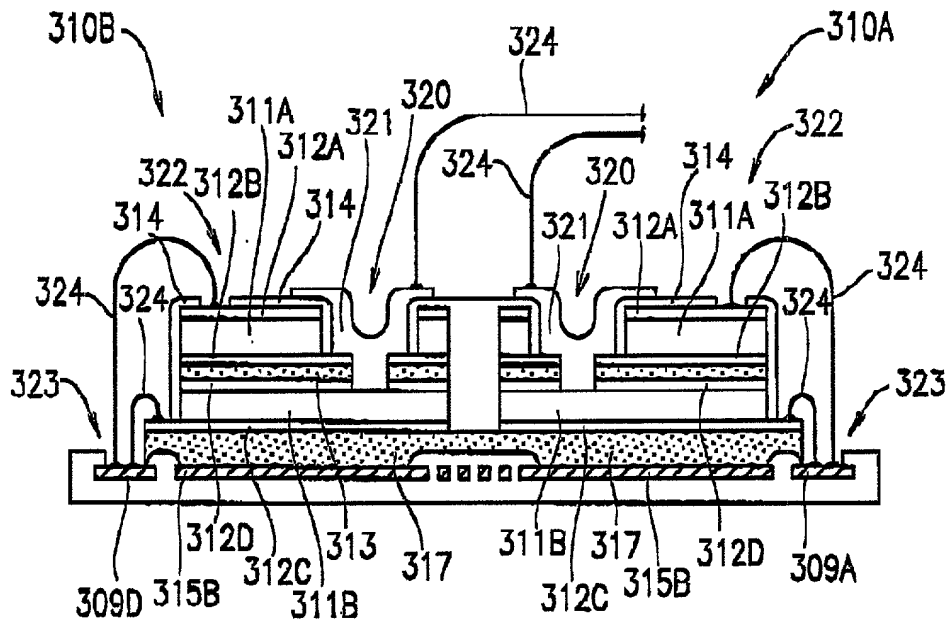
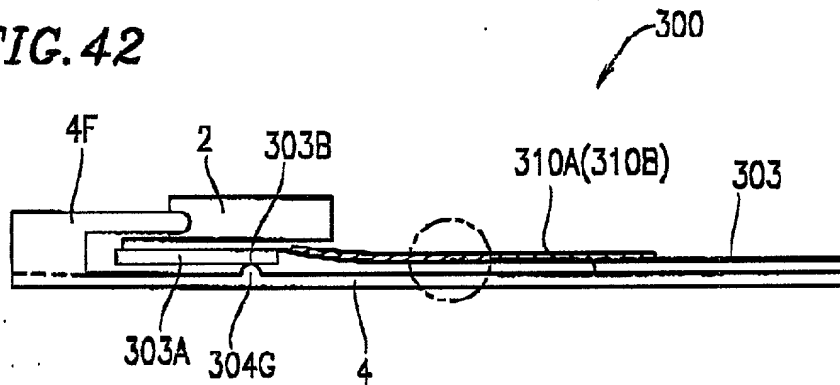


FIG. 42



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FIG. 43A

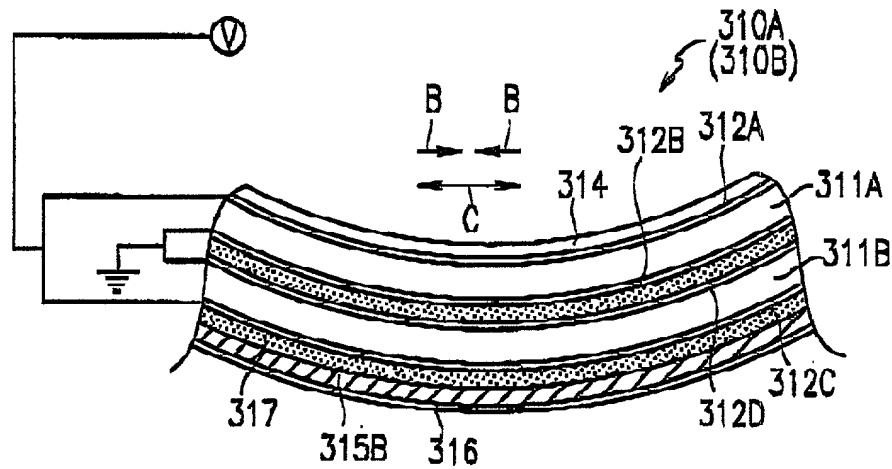


FIG. 43B

Voltage applied to
thin film piezoelectric
terminal 309A

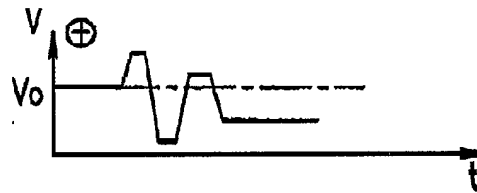
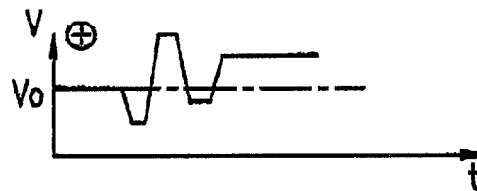


FIG. 43C

Voltage applied to
thin film piezoelectric
terminal 309D



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FIG. 44A

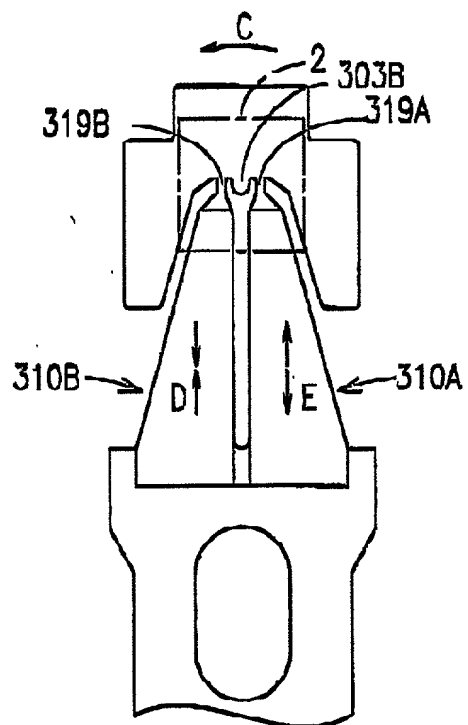


FIG. 44B

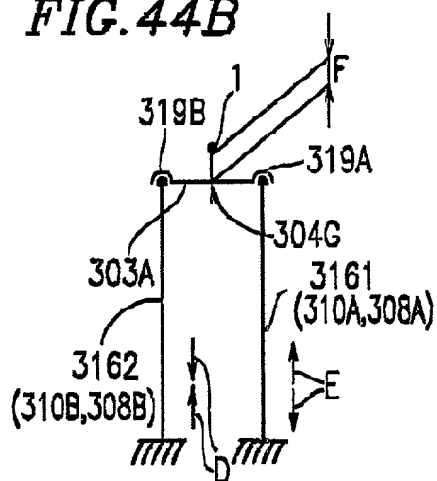


FIG. 44A

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